

PTO/SB/08 (2-92)
Sheet 1 of 9

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 249212013000	Application Number 09/588,891
	Applicant Tao-Chang LEE and James TYLOCK	
	Filing Date June 7, 2000	Group Art Unit 2651
	Mailing Date June 5, 2003	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
LU	1.	07/05/2001	2001/0006437	Leonhardt et al.			
	2.	10/30/1973	3,768,752	Bettini et al.			
	3.	02/05/1974	3,790,755	Silverman			
	4.	12/14/1976	3,997,715	Elliott			
	5.	07/23/1985	4,531,205	Faugeras			
	6.	04/12/1988	4,737,877	Kröngelb et al.			
	7.	10/22/1991	5,060,212	Fujita et al.			
	8.	12/17/1991	5,073,884	Kobayashi			
	9.	05/05/1992	5,111,448	Komma et al.			
	10.	09/01/1992	5,144,604	Sugiura			
	11.	06/08/1993	5,218,595	Lehureau et al.			
	12.	03/08/1994	5,293,367	Kadowaki et al.			
	13.	07/19/1994	5,331,621	Miyake et al.			
	14.	08/02/1994	5,334,849	Thomas et al.			
	15.	02/20/1996	5,493,554	Sasaki et al.			
	16.	12/03/1996	5,581,523	Seki et al.			
	17.	02/25/1997	5,606,542	Kim			
	18.	05/27/1997	5,633,844	Maeda et al.			
	19.	07/15/1997	5,648,946	Yamazaki			
	20.	07/15/1997	5,648,951	Kato et al.			
	21.	10/07/1997	5,674,583	Nakayama et al.			
	22.	10/21/1997	5,680,278	Sawtelle, Jr.			
	23.	10/21/1997	5,680,384	Seki et al.			
	24.	11/11/1997	5,687,155	Fukakusa et al.			
	25.	02/10/1998	5,717,674	Mori et al.			
	26.	06/30/1998	5,774,313	Tanaka et al.			
	27.	01/05/1999	5,855,589	McEwen et al.			

EXAMINER: 

1 DATE CONSIDERED: 4/30/04

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

pa-792430PTO/SB/08 (2-92)
pa-792430

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)

Sheet 2 of 9

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 249212013000	Application Number 09/588,891
	Applicant Tiao-Chang LEE and Janica TYLOCK	
	Filing Date June 7, 2000	Group Art Unit 2651
	Mailing Date June 5, 2003	

aw	28.	02/16/1999	5,872,675	Solhjell			
	29.	11/30/1999	5,993,948	Yamazaki et al.			
	30.	02/29/2000	6,031,671	Ayres			
	31.	05/16/2000	6,063,489	Kobayashi et al.			
	32.	07/04/2000	6,084,740	Leonhardt et al.			
	33.	08/15/2000	6,103,365	Ishii et al.			
	34.	08/22/2000	6,108,159	Nute et al.			
	35.	06/12/2001	6,246,535	Saliba et al.			
	36.	11/20/2001	6,319,595	Katashima et al.			
aw	37.	11/12/2002	6,480,351	Leonhardt et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO	
aw	38.	01/12/1983	EP 0 069 548	Europe				
	39.	07/20/1983	EP 0 083 753	Europe				
	40.	01/11/1984	EP 0 097 774	Europe				
	41.	05/16/1984	EP 0 108 258	Europe				
	42.	09/26/1984	EP 0 119 568	Europe			Yes Abstract only	
	43.	01/09/1985	EP 0 130 495	Europe				
	44.	09/18/1985	EP 0 153 000	Europe				
	45.	01/02/1986	EP 0 166 199	Europe				
	46.	04/16/1986	EP 0 177 737	Europe				
	47.	05/07/1986	EP 0 180 258	Europe				
	48.	08/06/1986	EP 0 189 948	Europe				
	49.	11/04/1987	EP 0 244 005	Europe				
aw	50.	03/02/1988	EP 0 257 713	Europe				

EXAMINER: *[Signature]*

DATE CONSIDERED: 4/30/04

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92)
pa-792430

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)

Sheet 3 of 9

Form PTO-1449					Docket Number 249212013000		Application Number 09/588,891	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>					Applicant Tiao-Chung LEE and James TYLOCK			
					Filing Date June 7, 2000		Group Art Unit 2651	
					Mailing Date June 5, 2003			
fw	51.	04/12/1989	EP 0 311 485	Europe				Yes Abstract only
	52.	04/19/1989	EP 0 311 859	Europe				
	53.	10/11/1989	EP 0 336 419	Europe				
	54.	12/06/1989	EP 0 344 759	Europe				
	55.	12/20/1989	EP 0 347 074	Europe				
	56.	01/24/1990	EP 0 351 837	Europe				
	57.	01/31/1990	EP 0 353 007	Europe				
	58.	05/16/1990	EP 0 368 268	Europe				
	59.	05/16/1990	EP 0 368 269	Europe				
	60.	10/03/1990	EP 0 390 555	Europe				
	61.	04/24/1991	EP 0 423 662	Europe				
	62.	06/26/1991	EP 0 434 230	Europe				
	63.	08/28/1991	EP 0 443 810	Europe				
	64.	05/13/1992	EP 0 484 774	Europe				
	65.	05/13/1992	EP 0 484 775	Europe				
	66.	05/13/1992	EP 0 484 779	Europe				
	67.	05/13/1992	EP 0 484 780	Europe				
	68.	07/29/1992	EP 0 496 461	Europe				
69.	04/07/1993	EP 0 535 112	Europe					
70.	07/07/1993	EP 0 549 845	Europe					
71.	07/07/1993	EP 0 549 854	Europe				Yes Abstract only	
72.	08/18/1993	EP 0 555 511	Europe					
73.	10/06/1993	EP 0 564 187	Europe					
74.	05/25/1994	EP 0 598 503	Europe					
75.	07/20/1994	EP 0 606 710	Europe					
76.	03/29/1995	EP 0 645 043	Europe					
77.	03/29/1995	EP 0 645 044	Europe					
78.	06/07/1995	EP 0 655 960	Europe					
EXAMINER: <i>[Signature]</i>					DATE CONSIDERED: 4/30/04			
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.								

PTO/SB/08 (2-92)
pa-792430

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)
Sheet 4 of 9

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 249212013000

Application Number 09/588,891

Applicant

Tzao-Chang LEE and James TYLOCK

Filing Date June 7, 2000

Group Art Unit 2631

Mailing Date June 5, 2003

rw	79.	11/29/1995	EP 0 684 597	Europe				
	80.	07/22/1998	EP 0 854 471	Europe				
	81.	08/09/2000	EP 1 026 665	Europe				
	82.	08/09/2000	EP 1 026 666	Europe				
	83.	08/09/2000	EP 1 026 667	Europe				
	84.	07/18/2001	EP 1 117 092	Europe				
rw	85.	01/14/1977	FR 2 315 142	France			Yes Abstract only	
rw	86.	04/14/1920	DE 320195	Germany				No
rw	87.	08/14/1975	DE 24 06 292	Germany			Yes Abstract only	
	88.	03/11/1977	DE 26 16 362	Germany			Yes Abstract only	
	89.	08/04/1983	DE 32 01 935	Germany			Yes Abstract only	
	90.	11/14/1985	DE 34 17 426	Germany			Yes Abstract only	
	91.	07/02/1992	DE 41 42 052	Germany			Yes Abstract only	
	92.	09/02/1981	JP 56-111169	Japan			Yes Abstract only	
	93.	03/24/1982	JP 57-50346	Japan			Yes Abstract only	
rw	94.	07/27/1982	JP 57-120230	Japan			Yes Abstract only	

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92)
pa-792430

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)

Sheet 5 of 9

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 249212013000	Application Number 09/588,891
	Applicant Tao-Chang LEE and James TYLOCK	
	Filing Date June 7, 2000	Group Art Unit 2651
	Mailing Date June 5, 2003	

95.	07/27/1982	JP 57-120255	Japan			Yes Abstract only
96.	06/30/1986	JP 61-142530	Japan			Yes Abstract only
97.	08/22/1987	JP 62-192025	Japan			Yes Abstract only
98.	06/21/1988	JP 63-148416	Japan			Yes Abstract only
99.	10/19/1988	JP 63-251924	Japan			Yes Abstract only
100.	03/16/1989	JP 64-70916	Japan			Yes Abstract only
101.	07/25/1990	JP 2-188915	Japan			Yes Abstract only
102.	06/17/1991	JP 3-141087	Japan			Yes Abstract only
103.	09/03/1991	JP 3-201215	Japan			Yes Abstract only
104.	09/26/1991	JP 3-219432	Japan			Yes Abstract only
105.	10/29/1991	JP 3-242816	Japan			Yes Abstract only
106.	01/08/1992	JP 4-3832	Japan			Yes Abstract only

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92)
pa-792430

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)
Sheet 6 of 9

Form PTO-1449					Docket Number 249212013000		Application Number 09/588,891	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>					Applicant Tzao-Chang LEE and James TYLOCK			
					Filing Date June 7, 2000		Group Art Unit 2651	
					Mailing Date June 5, 2003			
107.	02/07/1992	JP 4-38632	Japan			Yes Abstract only		
108.	02/26/1992	JP 4-59399	Japan			Yes Abstract only		
109.	09/08/1992	JP 4-252417	Japan			Yes Abstract only		
110.	10/28/1992	JP 4-305844	Japan			Yes Abstract only		
111.	03/26/1993	JP 5-73883	Japan			Yes Abstract only		
112.	01/28/1994	JP 6-020414	Japan			Yes Abstract only		
113.	05/20/1994	JP 6-139549	Japan			Yes Abstract only		
114.	09/02/1994	JP 6-243619	Japan			Yes Abstract only		
115.	09/16/1994	JP 6-259736	Japan			Yes Abstract only		
116.	10/21/1994	JP 6-293372	Japan			Yes Abstract only		
117.	01/31/1995	JP 7-29136	Japan			Yes Abstract only		
118.	03/03/1995	JP 7-57412	Japan			Yes Abstract only		
EXAMINER:					DATE CONSIDERED: 4/30/04			
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.								

PTO/SB/08 (2-92)
pa-792430

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)
Sheet 7 of 9

Form PTO-1449					Docket Number 249212013000		Application Number 09/388,891	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>					Applicant Tzao-Chang LEE and James TYLOCK			
					Filing Date June 7, 2000		Group Art Unit 2651	
					Mailing Date June 5, 2003			
kw	119.	03/10/1995	JP 7-65434	Japan	_____	_____	Yes Abstract only	_____
	120.	07/21/1995	JP 7-182626	Japan	_____	_____	Yes Abstract only	_____
	121.	08/18/1995	JP 7-220255	Japan	_____	_____	Yes Abstract only	_____
	122.	07/09/1996	JP 8-174669	Japan	_____	_____	Yes Abstract only	_____
	123.	01/10/1997	JP 9-7131	Japan	_____	_____	Yes Abstract only	_____
	124.	02/07/1997	JP 9-35246	Japan	_____	_____	Yes Abstract only	_____
	125.	10/07/1997	JP 9-265626	Japan	_____	_____	Yes Abstract only	_____
	126.	03/09/1999	JP 11-66529	Japan	_____	_____	Yes Abstract only	_____
	127.	03/09/1999	JP 11-66745	Japan	_____	_____		No
	128.	04/09/1999	JP 11-96705	Japan	_____	_____	Yes Abstract only	_____
	129.	05/11/1999	JP 11-126328	Japan	_____	_____	Yes Abstract only	_____
	130.	06/08/1999	JP 11-154312	Japan	_____	_____	Yes Abstract only	_____
kw	131.	06/18/1999	JP 11-161928	Japan	_____	_____	Yes Abstract only	_____
EXAMINER: <i>[Signature]</i>					DATE CONSIDERED: 4/30/04			
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.								
PTO/SB/08 (2-92) pa-792430					Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE			

PTO/SB/08 (2-92)
Sheet 8 of 9

Form PTO-1449					Docket Number 249212013000		Application Number 09/581,891	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>					Applicant			
					Tzao-Chang LEE and James TYLOCK			
					Filing Date June 7, 2000		Group Art Unit 2651	
					Mailing Date June 5, 2003			
	132.	08/06/1999	JP 11-213383	Japan			Yes Abstract only	
	133.	08/06/1999	JP 11-213384	Japan			Yes Abstract only	
	134.	09/07/1999	JP 11-242814	Japan			Yes Abstract only	
	135.	12/10/1999	JP 11-339254	Japan			Yes Abstract only	
	136.	12/24/1999	JP 11-353642	Japan			Yes Abstract only	
	137.	03/16/2001	JP 2001-067652	Japan				
	138.	07/28/1994	9406847	South Korea			Yes Abstract only	
	139.	01/30/1985	SU 1137513	Soviet Union				No
	140.	04/15/1977	CH 586 944	Switzerland				No
	141.	05/31/1979	2 008 290	United Kingdom				
	142.	08/05/1981	1 595 136	United Kingdom				
	143.	12/14/1983	2 121 227	United Kingdom				
	144.	09/29/1999	2 335 785	United Kingdom				
	145.	12/26/1991	WO 91/20077	WIPO				
	146.	12/23/1993	WO 93/26004	WIPO				
	147.	12/23/1993	WO 93/26007	WIPO				
	148.	12/23/1993	WO 93/25343	WIPO				
	149.	04/29/1999	WO 99/21178	WIPO			Yes Abstract only	
	150.	04/29/1999	WO 99/21179	WIPO			Yes Abstract only	
EXAMINER:					DATE CONSIDERED: 4/30/03			
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.								

PTO/SB/08 (2-92)
pa-792430

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)






Sheet 9 of 9

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 249212013000	Application Number 09/588,891
	Applicant Tiao-Chang LEE and Janice TYLOCK	
	Filing Date June 7, 2000	Group Art Unit 2651
	Mailing Date June 5, 2003	

151.	06/03/1999	WO 99/27530	WIPO				
152.	06/10/1999	WO 99/28909	WIPO				
153.	05/25/2000	WO 00/30079	WIPO				
154.	08/24/2000	WO 00/49604	WIPO			Yes Abstract only	
155.	08/24/2000	WO 00/49605	WIPO			Yes Abstract only	
156.	08/24/2000	WO 00/49607	WIPO				

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	157.	Hoagland, A. S. (March 1978). "Optical Servo of Magnetic Recording," <i>IBM Technical Disclosure Bulletin</i> 20(10):4108-4109.
	158.	Ishiguro, H. et al. (February 1996). "A Laser-Detector-Hologram Unit with IV Amplifiers and Built-in Micro-Mirror," <i>ISSCC SA</i> 20.3:330-331.
	159.	Johnson, M. (August 1990). "Spatial Filtering For Storage Technology," <i>IBM Technical Disclosure Bulletin</i> 33(3A):191-193.
	160.	Lambert, S.E. and Rugar, D. (April 1990). "Servo Scheme for Patterned Media Using Optical Detection Integrated with the Head Structure," <i>IBM Technical Disclosure Bulletin</i> 32(11):397-399.
	161.	Yoshikawa, A. et al. (May 1995). "Laser-Detector-Hologram Unit for Thin Optical Pick-up Head of a CD Player," <i>IEEE Trans. on Components, Packaging, and Manufacturing Technology Part B</i> , 18(2):245-249.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92)
 ps-792430

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(See several sheets if necessary)</i>	Docket Number 249212013000	Application Number 09/588,891
	Inventor(s) Tzuo-Chang LEE and James TYLOCK	
	Filing Date June 7, 2000	Group Art Unit 2651
	Mailing Date October 28, 2003	Examiner Name K. Wong



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Document Date (MM/DD/YYYY)	Document No.	Name	Filing Date If Appropriate
KV	1.	03/17/1992	5,097,351	Kramer	
KV	2.	01/12/1993	5,179,463	Kramer	
KV	3.	09/29/1998	5,815,482	Rope et al.	

RECEIVED

OCT 31 2003

Technology Center 2600

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Publication Date (MM/DD/YYYY)	Document No.	Country	Translation YES NO
KV	4.	07/29/1992	0 496 132	Europe	
KV	5.	05/15/2002	1 205 912	Europe	
KV	6.	05/15/2002	1 205 913	Europe	

OTHER DOCUMENTS

(including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.